INTERIM LAND DEVELOPMENT ENGINEER SERVICES

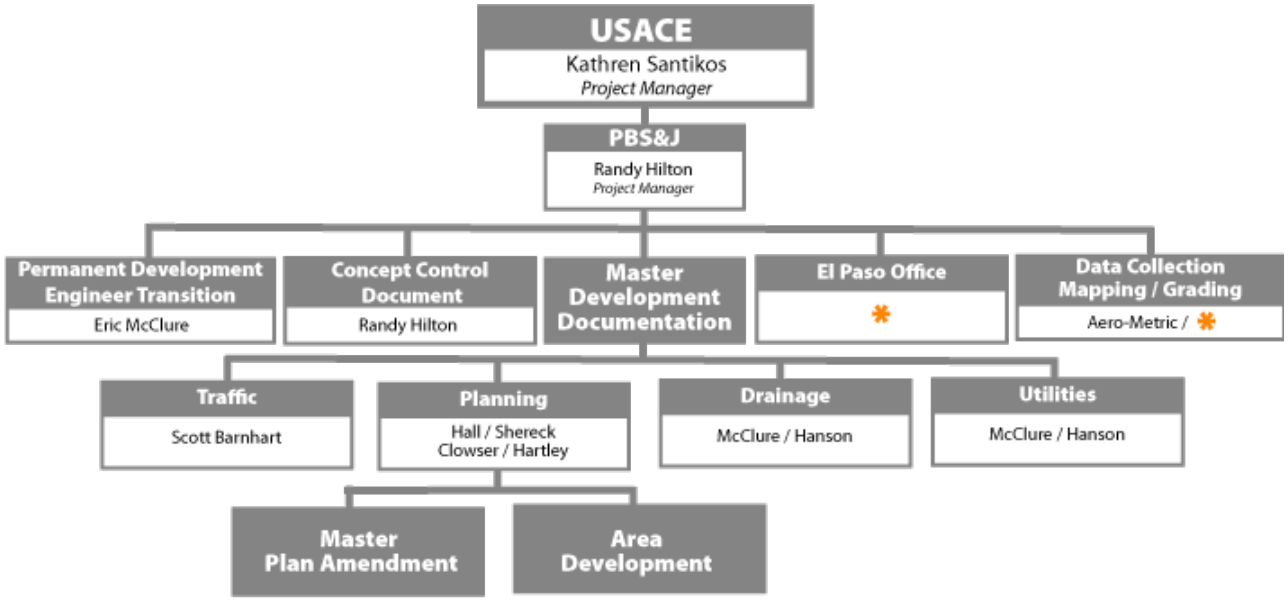
UTILITY WORKSHOP - OCTOBER 2005

MORE CAPABLE MODULAR FORCE

MORE STABLE & PREDICTABLE LIFESTYLE

MORE RELEVANT & READY ARMY

Organizational Chart



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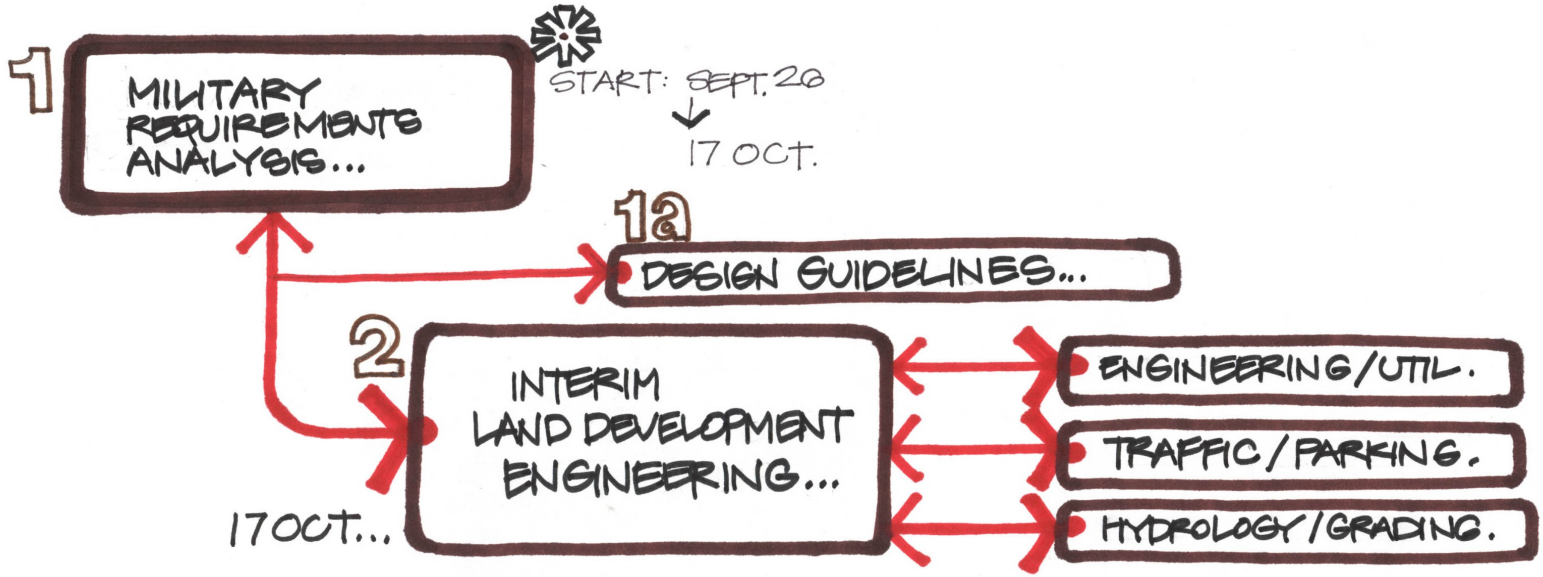
Milestone Delivery

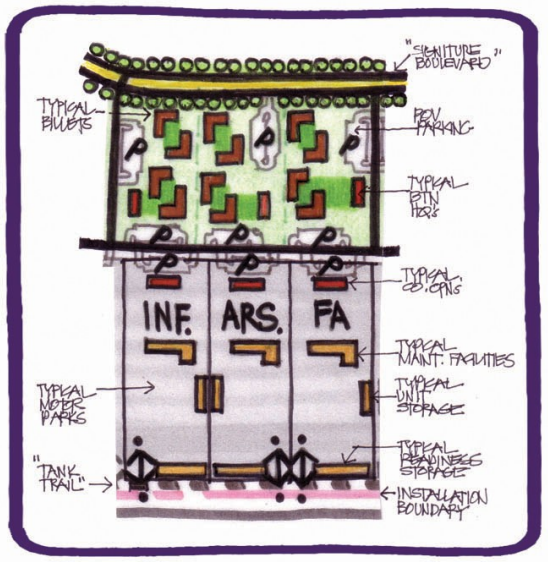


Information Gathering

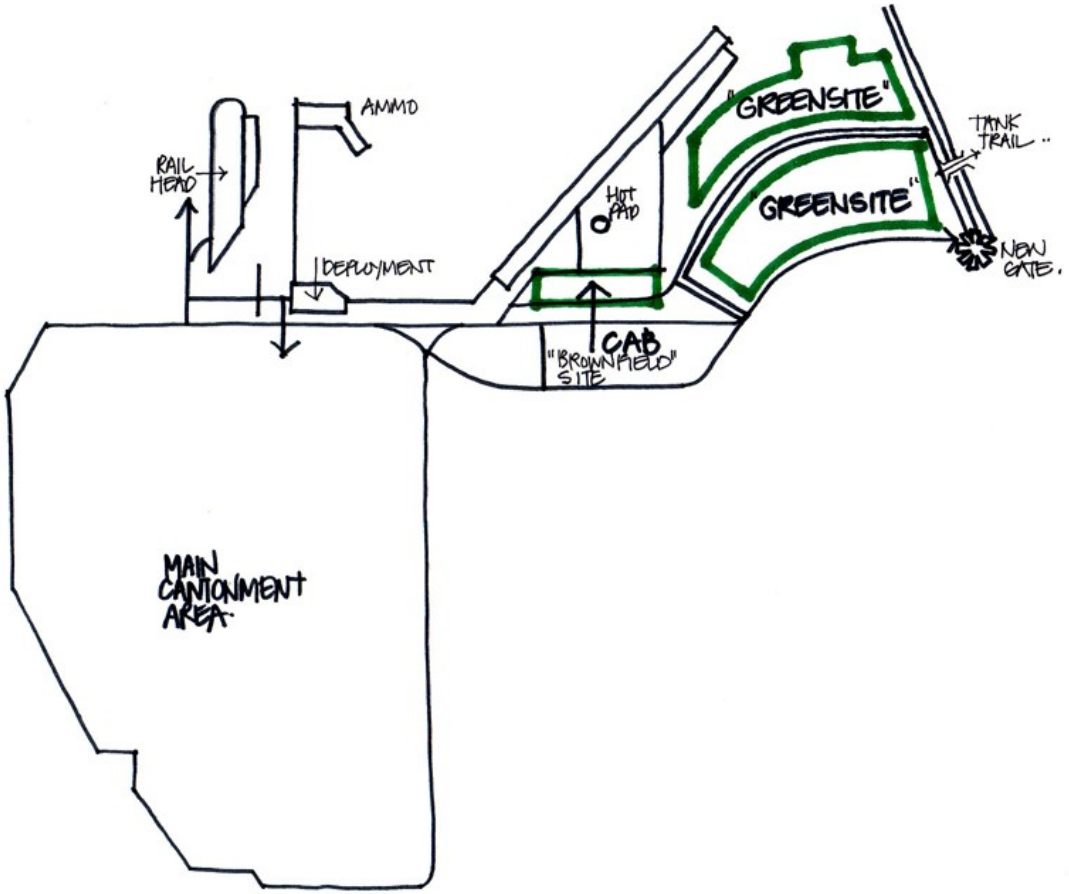
- TABULATION OF EXISTING/REQ. FACILITIES.
- REAL PROPERTY INVENTORY.
- FACILITY REDUCTION PLAN.
- ENVIRONMENTAL CONSTRAINTS.
- EXISTING INSTALLATION DESIGN GUIDE.
- 1391 PROJECT LISTING.
- EXIST MASTER PLAN...

PBS&J CONCEPT DEVELOPMENT PLAN

ADJUST FINDINGS INTO "LOT" TEMPLETES...



Concept Master Plan



Master Plan Development

- **Planning Initiative:**

  1391 Project Numbers:
  Use:
  Phase: I-IV

- **Planning Criteria:**

  Area Requirements:
  Square Footage / Facilities:
  Hardstand / Parking
  Special Requirements
  * Impacts on Fort Bliss:

- **Functional Relationships:**

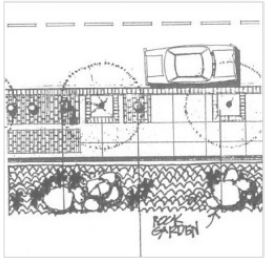
  Land Use:
  Adjacent Use:
  "District Concept" Considered:

- **Mission Requirements:**

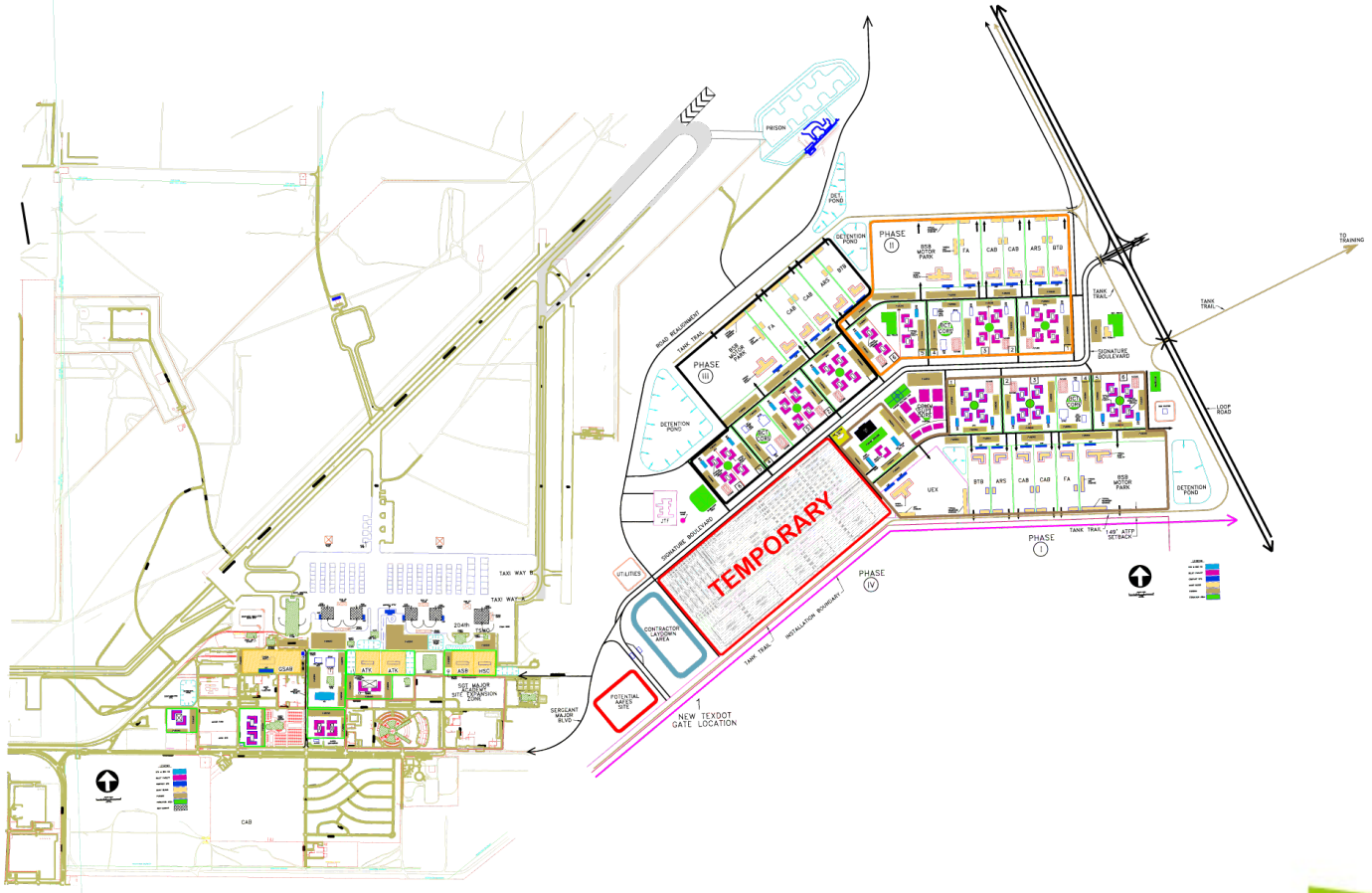
  Personnel:
  Equipment:
  Facilities / Category Codes:
  Training:

- **Related Planning Studies:**

  Transportation:
  Environmental:
  Tabulation of Existing/
  Required Facilities / Tab:
  RPI:
  IDG:
  Facility Reduction Plan:



BCTs & CAB Overall Concept Development Plan

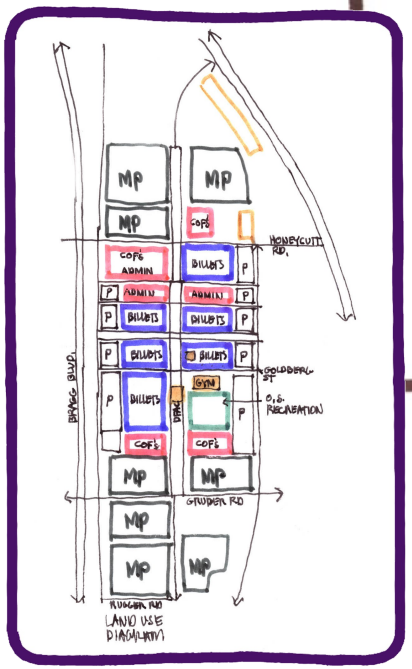


Key Elements

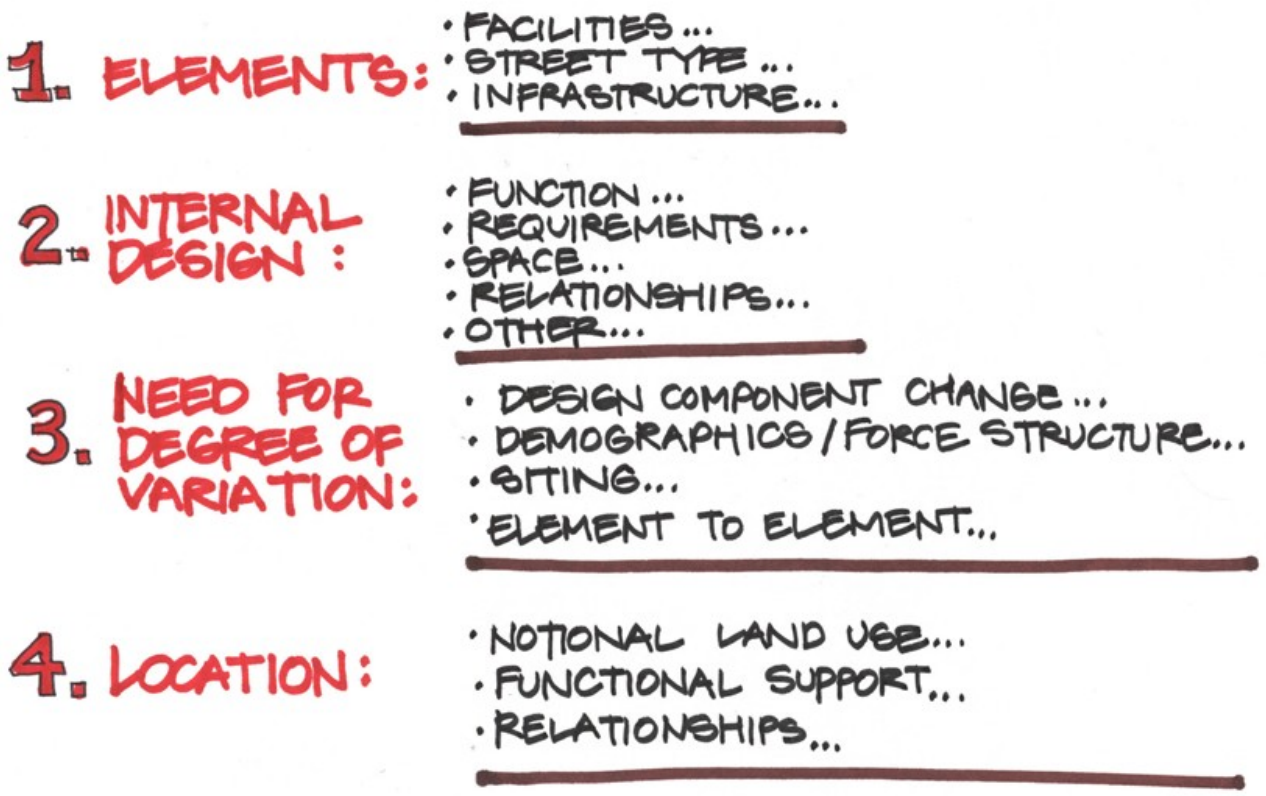
HIGHLIGHTS

DEFINE BRIGADE FOOTPRINTS...

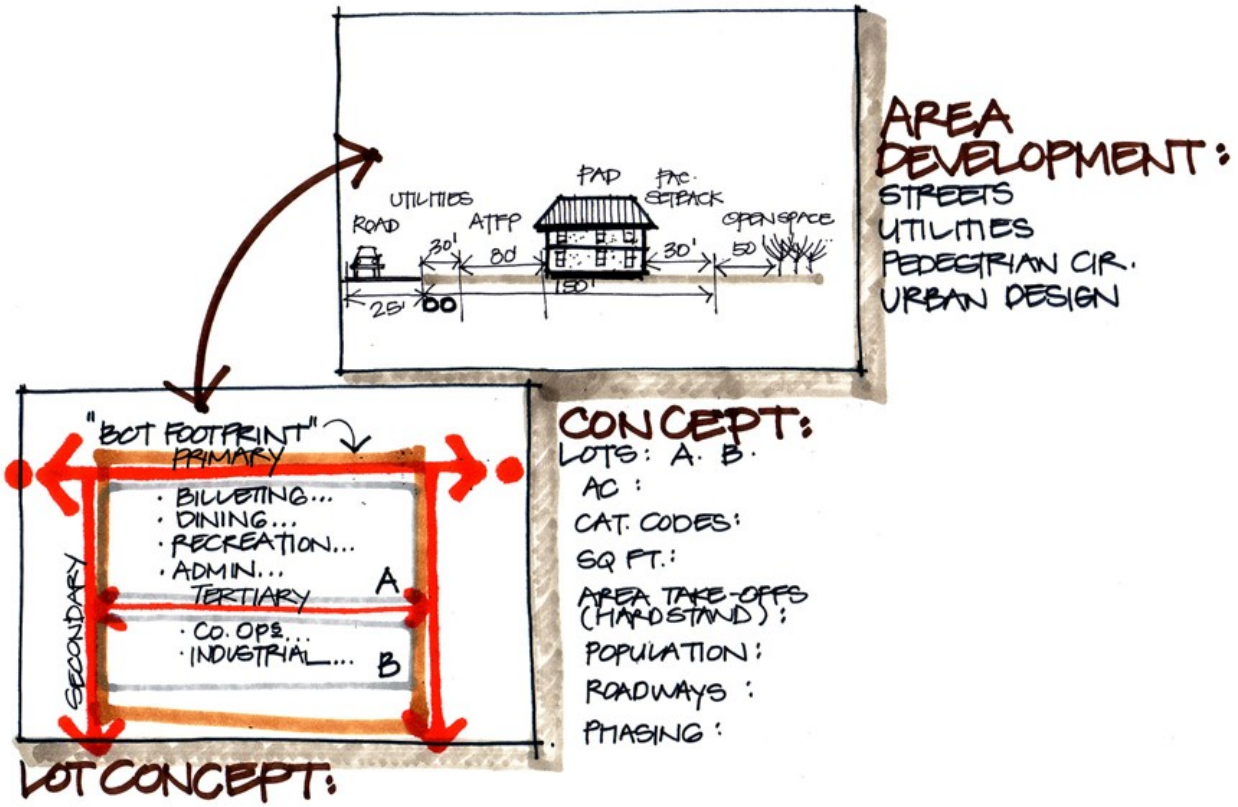
- CREATE "LOT" TEMPLATES INTERNAL TO BRIGADE FOOTPRINT...
- IDENTIFY REQUIRED CATEGORY CODES NOT DEFINED BY IMA GUIDELINES TO SUPPORT THE TROOPS:
  - COMMUNITY
  - SUPPORT/TRAINING
  - WAREHOUSE/SUPPLY...
- ADJUST MASTER PLAN REQUIREMENTS WITH FORT BLISS.
- PRESENT PLANNING CRITERIA.



Concept Template Definition

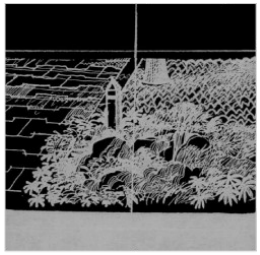


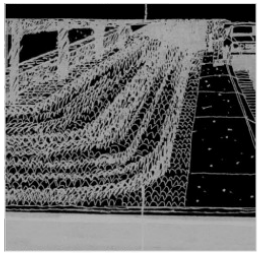
Concept Development



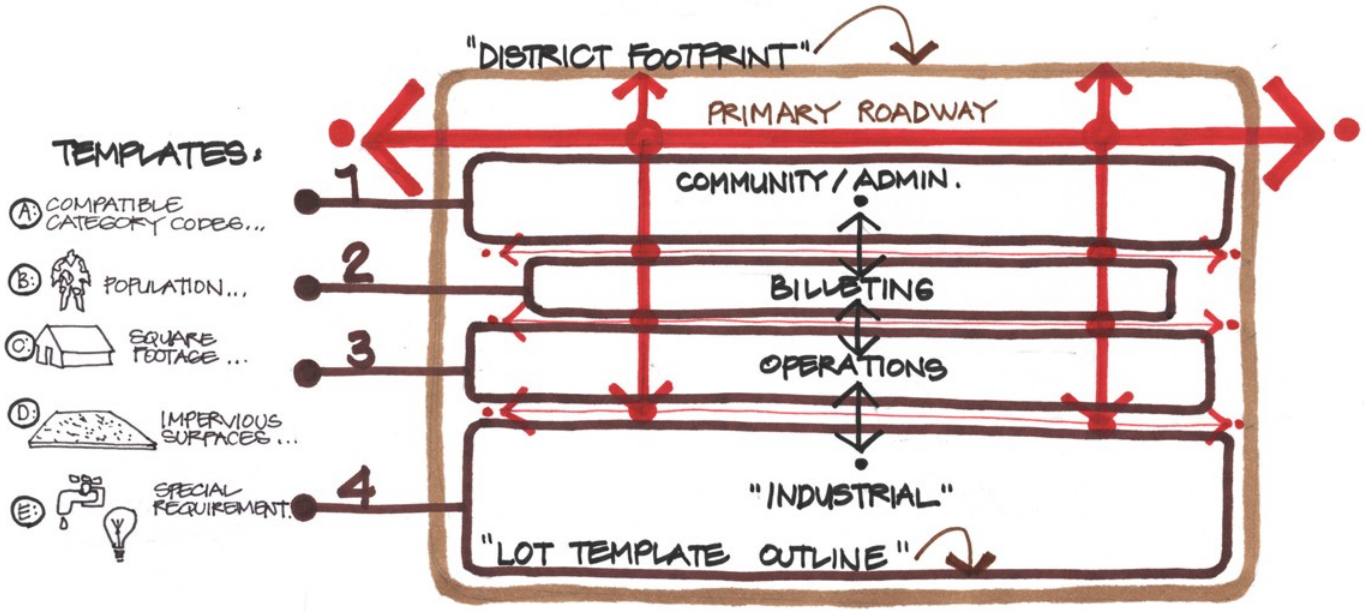
Lot Concept Goals

- Maximize operational capacity...
- Define functional land use components...
- Address associated environmental concerns...
- Economic feasibility, efficiency of infrastructure...
- Plan future vehicular, traffic and pedestrian circulation...
- Amend previous master plan...
- Determine / Define functional relationships between Bliss Proper and Biggs Army Airfield...

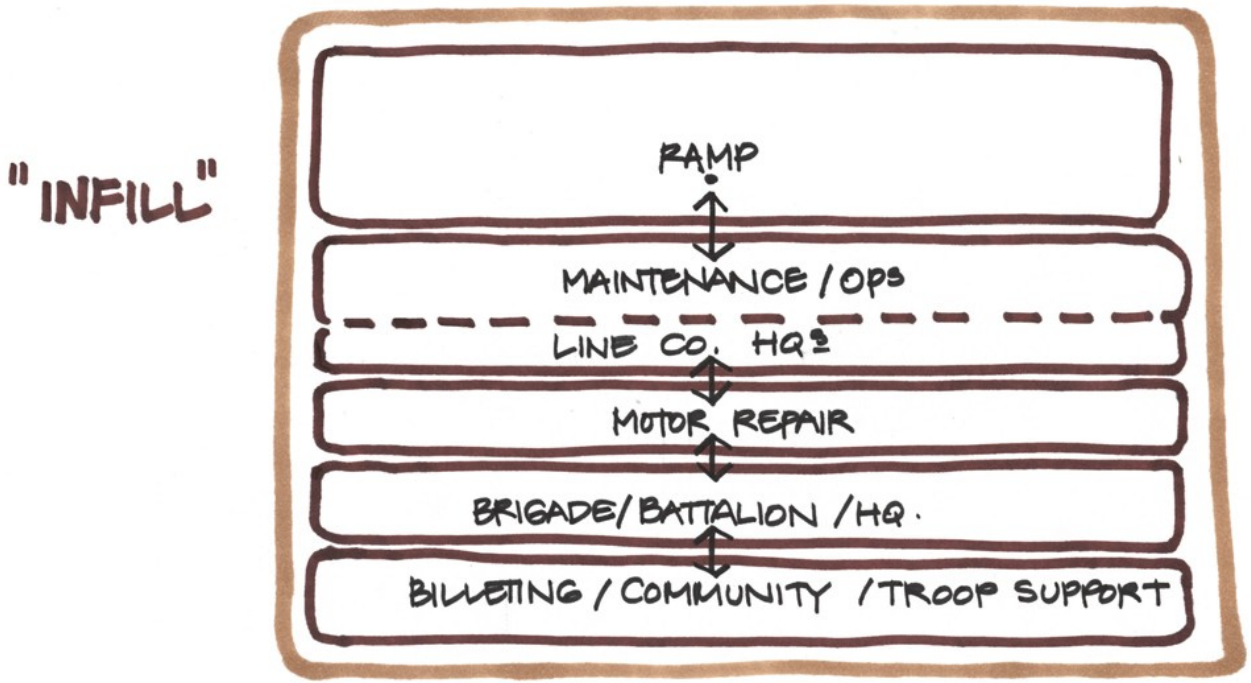




BCT “Lot Template” Schematic



CAB “Lot Template” Schematic



Combat Aviation Brigade

Infrastructure Improvements

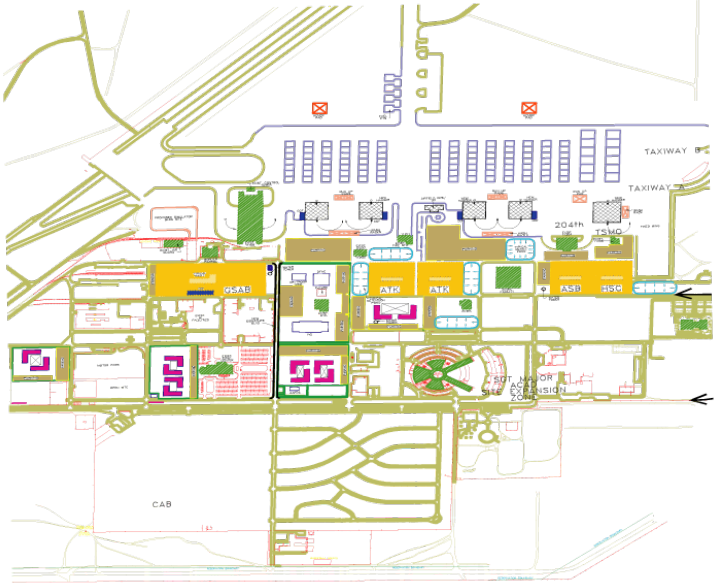
Clear and Grub Sites
Existing Building Demolition
Excavation For Sites
Excavation For Retention Ponds
New Access Arterial Roadway & Lighting
Replace Existing Roadway Pavement
Add Roadway Curb and Gutter
Add Roadway Sidewalks
Potable Water System Improvements
Sanitary Sewer System Improvements
Storm Sewer Improvements
Upgrade Electrical Service
Upgrade Communications Service
Upgrade Natural Gas Service
Airfield Ramp/Taxiway Improvements

Airfield Ramp/Taxiway Improvements

Existing Airfield Building Demolition
Existing Airfield Ramp Demolition
Existing Airfield Taxiway Demolition
New Airfield Apron with Lighting
New Airfield Taxiways with Lighting
New Hover Pads
New Fueling Pads

On-Site Improvements

Dining Facility
Unit Ops Buildings
Brigage Headquarters
Battalion Headquarters
Company Headquarters
Org Classrooms
AC Maintenance Hangars
Vehicle Maintenance Shops
Unit Deployment Storage
Unaccompanied Enlisted Personnel Housing
Jet Fuel Storage
Airfield Fueling Facility
Org Vehicle Fueling Storage
Ground Vehicle Fueling Facility
Minor Roadways and Lighting
Org Vehicle Parking Facilities with Lighting
Sidewalks, Curbs and Gutters
Stormwater Collection Systems
Retention Ponds
Potable Water Distribution
Sanitary Sewer Collection
Landscaping
Permanent Signage
Electric Service
Natural Gas Service
Communications



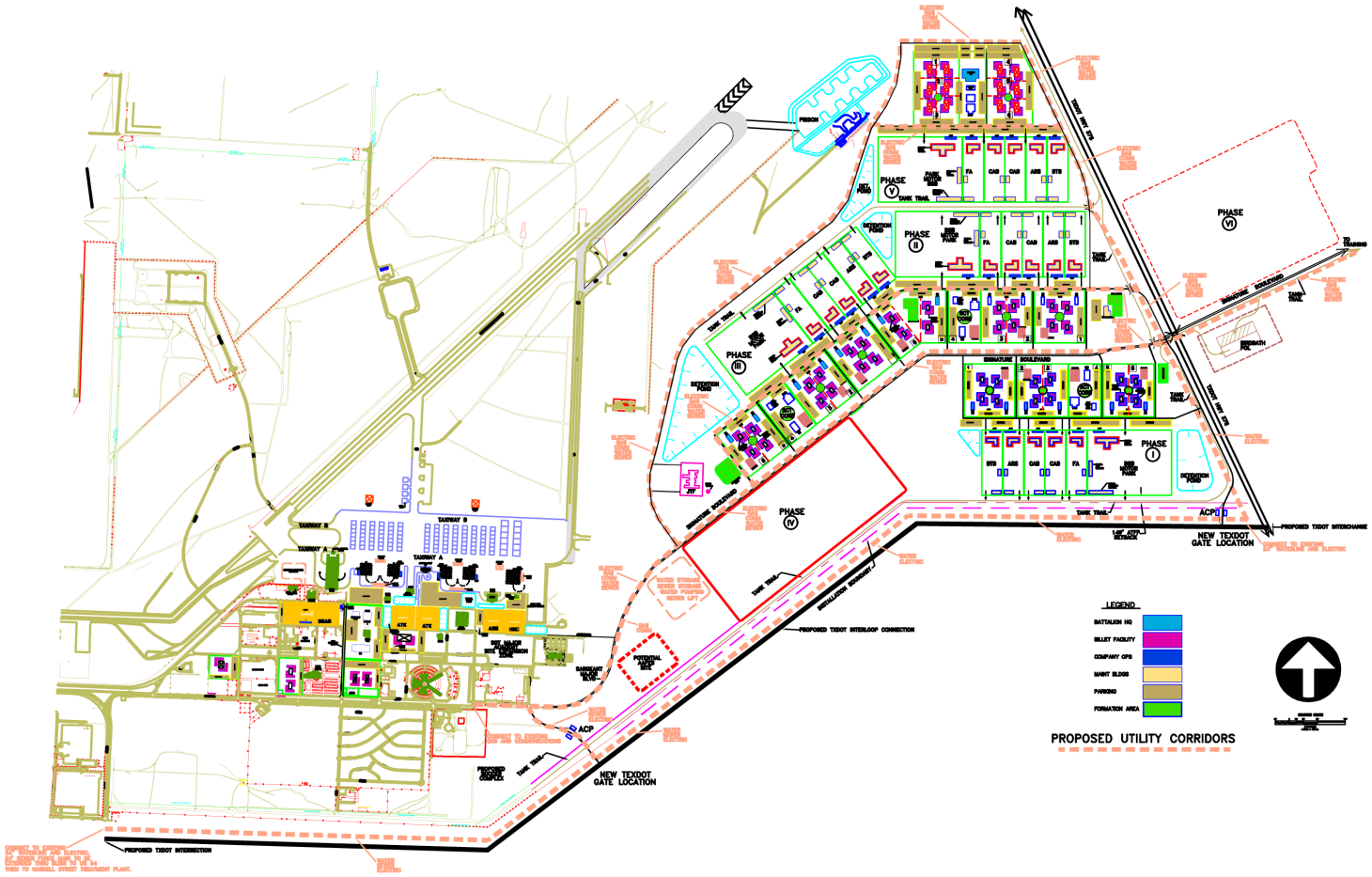
For graphical purposes only

BCT Complex Infrastructure

Infrastructure Improvements

Sanitary Sewer Lift Stations
Sanitary Sewer Force Main
Potable Water Storage
Potable Water Pumping Station
Sanitary Sewer Trunk Lines
Potable Water Trunk Lines
Arterial Roadways & Lighting
Tank Trails
Under Ground Electric Trunk Lines
Electric Substations
Storm Sewer Trunk Lines
Natural Gas Trunk Lines
Clear and Grub for Roadways
Grading for Roadways
Communication Systems
Retention Ponds

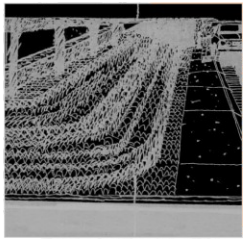
Proposed Utility Corridors



Conclusion

Interim Land Development Engineering Services

- Building the elements for the future Ft. Bliss / Biggs Army Airfield
- Concept Planning Documents
  - Planning/Mapping/Grading
  - Utility Requirements
  - Drainage, Master Study
  - Traffic, Master Study
- Address immediate building / construction
  - Architectural theme
  - IDG refinement
  - Infrastructure requirements
  - BCT / CAB area development concepts
- Permanent Land Development Engineer Scope/Schedule
- Teaming with USACE to develop the Army in Transformation Garrison



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